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1910



1911

BRUNSWICK, MAINE

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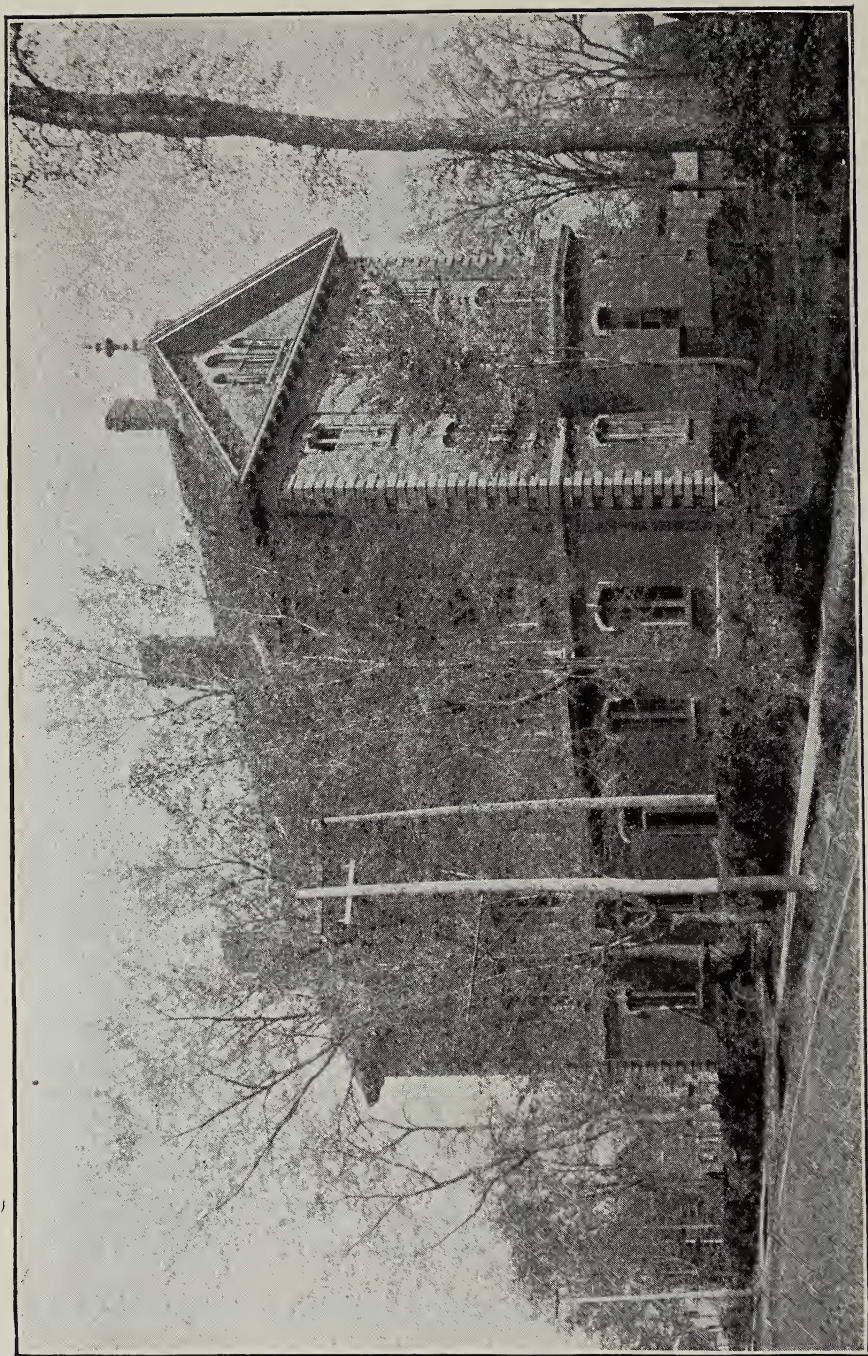
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JULY, - 1910









SCHOOL BUILDING, BRUNSWICK

CATALOGUE  
OF THE  
MEDICAL SCHOOL OF MAINE  
THE MEDICAL DEPARTMENT  
OF  
BOWDOIN COLLEGE  
FOR THE NINETY-FIRST YEAR

1910



1911

BRUNSWICK, - MAINE

PRINTED FOR THE COLLEGE, MDCCCX

PRESS OF THE BRUNSWICK RECORD  
BRUNSWICK, MAINE



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- PHILIP PICKERING THOMPSON, A.B., M.D., *Assistant Demonstrator of Anatomy.* 704 Congress Street, Portland.



- WILLIAM MORAN, M.D., *Clinical Assistant in Diseases of the Eye.*  
Y. M. C. A. Building, Portland.
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660 Congress Street, Portland.
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545 Deering Avenue, Portland.
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359 Congress Street, Portland.
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156 Free Street, Portland.
- FRANCIS WILSON LAMB, M.D., *Clinical Assistant in Orthopedics.*  
156 Free Street, Portland.
- JOSEPH BLAKE DRUMMOND, A.B., M.D., *Assistant Demonstrator in Histology.*  
105 Elwell Street, Portland.
- ERASTUS EUGENE HOLT, JR., A.B., M.D., *Assistant Demonstrator in Histology.*  
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- FRANK CARADOC EVANS, A.B., *Assistant in Chemistry.*  
Brunswick, Me.
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- DANIEL ARTHUR ROBINSON, A.M., M.D., *from the Board of Overseers.*
- ERNEST BOYEN YOUNG, A.B., M.D., *from the Board of Overseers.*

## GRADUATES OF 1910.

---

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HARRY EDWARD ANDERSON.....	South Limington
ELMER JONATHAN BROWN.....	Strong
HANNIBAL HAMLIN BRYANT, JR., A.B.....	Waterville
LESTER WARREN CARPENTER.....	North Waterboro
CHARLES FULLER DEERING .....	Winslow's Mills
JOSEPH BLAKE DRUMMOND, A.B. ....	Portland
WILLIAM JOSEPH FAHEY.....	Lewiston
LEO FREDERICK HALL.....	Augusta
ERASTUS EUGENE HOLT, JR., A.B.....	Portland
ERNEST DAVIS HUMPHREYS.....	Henderson
ADAM PHILLIPS LEIGHTON, JR.....	Portland
FRANK MIKELSKY MIKELS, A.B.....	Brunswick
JAMES ATWOOD CROWELL MILLIKEN.....	New Bedford, Mass.
CHRISTIAN VILHELM OSTERGREN, A.B.....	Stockholm, Sweden
BLINN WHITTEMORE RUSSELL, A.B.....	Farmington
CHARLES FRANCIS TRAYNOR.....	Biddeford
RICARDO GERONIMO VALLADARES.....	Santa Clara, Cuba
MERLON ARDEEN WEBBER, A.B.....	Fairfield
MILLARD CARROLL WEBBER, A.B.....	Fairfield

# STUDENTS IN 1909-10.

## FOURTH YEAR.

Name	Residence	Room
Abbott, Percy Hobbs.....	<i>Waterboro</i> .....	*174 Neal St.
Anderson, Harry Edward.....	<i>South Limington</i> .....	85 Spring St.
Brown, Elmer Jonathan.....	<i>Strong</i> .....	302 Brackett St.
Bryant, Hannibal Hamlin, Jr. A. B.	<i>Waterville</i> .....	22 Charles St.
Carpenter, Lester Warren.....	<i>North Waterboro</i> ..	103 Congress St.
Deering, Charles Fuller.....	<i>Winslow's Mills</i> .....	22 Charles St.
Drummond, Joseph Blake, A. B.....	<i>Portland</i> .....	105 Elwell St.
Fahey, William Joseph.....	<i>Lewiston</i> .....	174 Neal St.
Hall, Leo Frederick.....	<i>Augusta</i> .....	174 Neal St.
Holt, Erastus Eugene, Jr., A. B.....	<i>Portland</i> .....	723 Congress St.
Humphreys, Ernest Davis.....	<i>Henderson</i> .....	22 Charles St.
Leighton, Adam Phillips, Jr.....	<i>Portland</i> .....	261 Western Promenade
Mikels, Frank Mikelsky, A. B.....	<i>Brunswick</i> .....	14 Wescott St.
Milliken, James Atwood Crowell..	<i>New Bedford, Mass.</i>	768 Congress St.
Ostergren, Christian Vilhelm, A. B..	<i>Stockholm, Sweden</i> ...	22 Charles St.
Russell, Blinn Whittemore, A. B....	<i>Farmington</i> .....	302 Brackett St.
Traynor, Charles Francis.....	<i>Biddeford</i> .....	20 Bramhall St.
Valladares, Ricardo Geronimo.....	<i>Santa Clara, Cuba</i>	31 Ellsworth St.
Webber, Merlon Ardeen, A. B.....	<i>Fairfield</i> .....	14 Wescott St.
Webber, Millard Carroll, A. B.....	<i>Fairfield</i> .....	14 Wescott St.

## THIRD YEAR.

Name	Residence	Room
Baldwin, Albert Kilburn, A. B.....	<i>Brunswick</i> .....	*24 Arsenal St.
Clement, James Donald.....	<i>Belfast</i> .....	14 Charles St.
Dolley, Frank Stephen, A. B.....	<i>Brunswick</i> ...	St. Barnabas Hospital
Jackson, Elmer Herbert.....	<i>Jefferson</i> .....	807 Congress St.
Long, Paul Raymond.....	<i>Parsonsfeld</i> .....	19 Ellsworth St.
Nason, Charles Jewell.....	<i>Hampden</i> .....	19 Ellsworth St.
Stanwood, Harold William, A. B....	<i>Rumford</i> .....	807 Congress St.

\*The rooms of Third and Fourth Year students are in Portland unless otherwise stated.



Name	Residence	Room
Stevens, Carl Hervey.....	<i>Northport</i> .....	662 Congress St.
Taylor, Cornelius John.....	<i>Bangor</i> .....	807 Congress St.
Thewlis, Malford Wilcox.....	<i>Providence, R. I.</i>	662 Congress St.
Webster, Francis Howe.....	<i>Castine</i> .....	19 Deering Ave.
Wharton, Charles Green, B.S.....	<i>Tulare, Cal.</i> .....	14 Charles St.
Wilson, Charles Moore.....	<i>Waterford</i> .....	568 Congress St.
Wollin, Gustaf Fritz Robert.....	<i>Ystad, Sweden</i> .....	1 Deering Pl.

## SECOND YEAR.

Name	Residence	Room
Bennett, Roland Joseph.....	<i>Dover, N. H.</i> .....	1 High St.
Brown, Freeman Fletcher.....	<i>Vinalhaven</i> .....	1 High St.
Buck, George Henry, A.B.....	<i>Harrison</i> .....	6 Cleaveland St.
Dunn, Archibald Wallace.....	<i>Auburn</i> .....	Ψ. T. House
Fogg, Neil Augustus.....	<i>Freeport</i> .....	Freeport
Hammond, Walter Jean, A.B.....	<i>Howland</i> .....	6 Cleaveland St.
Hendee, Walter Whitman.....	<i>Augusta</i> .....	23 Noble St.
Jackson, Sumner Waldron, A.B....	<i>Waldoboro</i> .....	102 Union St.
Johnson, Henry Lincoln.....	<i>Brunswick</i> .....	44 Union St.
Lente, Harry Hallock.....	<i>Franklin, Mass.</i>	6 Cleaveland St.
Merrill, Clyde Harold.....	<i>Auburn</i> .....	12 Pleasant St.
Pratt, Harold Sewall, A.B.....	<i>Farmington</i> .....	1 Maine Hall
Rosen, William.....	<i>New Bedford, Mass</i>	59 Harpswell St.
Scamman, Clarence Linwood.....	<i>Hartland</i> .....	102 Union St.
Stanley, Oramel Henry, A.B.....	<i>Fryeburg</i> .....	6 Cleaveland St.

## FIRST YEAR

Name	Residence	Room
Arey, Harold Carlton, A.B.....	<i>Camden</i> .....	30 Cumberland St.
Bridge, Ezra Ralph, A.B.....	<i>Brunswick</i> .....	10 Harpswell Pl.
Buck, Wallace Ezra.....	<i>Portland</i> .....	9 McLellan St.
Coombs, Wyern Almon.....	<i>Vinalhaven</i> .....	16 Lincoln St.
Echols, Francis Sherman.....	<i>Hartford Conn.</i>	254 Maine St.
Gordon, Isaac Louis.....	<i>Lincoln</i> .....	17 Elm St.
Gould, Carlisle Royal.....	<i>Somersworth, N.H.</i>	30 Cumberland St.
Hanscom, Ridgley Fernald.....	<i>New London, Conn.</i>	32 Pleasant St.
Lafleche, Renie Ricker.....	<i>Caribou</i> .....	30 Cumberland St.
Lippincott, Leon Stanley.....	<i>Augusta</i> ....	23 Winthrop Hall
McGilvery, Wilfred Nichols.....	<i>Lewiston</i> .....	10 Cleaveland St.

Name	Residence	Room
McNeil, Henry Daniel....	<i>Bangor</i> .....	234 Maine St.
Moulton, Albert Willis, A.B.....	<i>Portland</i> .....	19 Winthrop Hall
Nelson, Chesley Wilbur, A.B.....	<i>West Southport</i> .....	7 Everett St.
Paine, Edward Warren .....	<i>Winslow</i> .....	30 Cumberland St.
Roberts, Edward Russell... ..	<i>Portland</i> .....	38 College St.
Ross, Harold Danforth.....	<i>Phillips</i> .....	16 Lincoln St.
Scribner, Herbert Charles.....	<i>Bangor</i> .....	234 Maine St.
Sullivan, Philip Sheridan .....	<i>Biddeford</i> .....	30 Cumberland St.
Trickey, Winfield Benjamin.....	<i>East Corinth</i> .....	9 McLellan St.
Walker, Francis David.....	<i>Waterville</i> .....	59 Harpswell St.
Winslow, Everett Stevens.....	<i>Portland</i> .....	38 College St.
Witherell, Harry David.....	<i>Cornish, N. H.</i> .....	102 Union St.
Woodman, Samuel Lee.....	<i>Winthrop</i> .....	59 Harpswell St.

SUMMARY.

FOURTH YEAR.....	20
THIRD YEAR.....	14
SECOND YEAR.....	15
FIRST YEAR.....	24
TOTAL.....	73

## ANNOUNCEMENT.

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The Medical School of Maine, established by the first Legislature of the State, was by its charter placed under the control of the Boards of Trustees and Overseers of Bowdoin College, of which institution it is the Medical Department.

Its course of instruction covers four years of thirty-six weeks each. The studies are distributed through the curriculum according to the following schedule:

FIRST YEAR: Anatomy, Embryology, Histology, Physiology, Chemistry, Personal Hygiene.

SECOND YEAR: Anatomy, Physiology, Chemistry, Pathology, Bacteriology.

THIRD YEAR: Internal Medicine, Surgery, Materia Medica, Pharmacology and Therapeutics, Diseases of Women, Obstetrics, Diseases of the Skin.

FOURTH YEAR: Internal Medicine, Surgery, Materia Medica, Pharmacology and Therapeutics, Medical Jurisprudence, Public Hygiene, Diseases of Women, Diseases of Children, Neurology and Mental Diseases, Clinical instruction in Diseases of the Skin, Diseases of the Genito-Urinary System, Diseases of the Eye, Diseases of the Ear, Diseases of the Joints, Diseases of the Nose and Throat.

The students of the first and second years are instructed at Brunswick, where the school has been situated since its foundation in 1820, and where the facilities are excellent for imparting a knowledge of the primary branches. The third and fourth year classes are taught in Portland on account of the superior clinical advantages afforded in that city. The building designed for the use of the school and now occupied by it furnishes ample accommodations for the advanced classes. The location



of the building is on Chadwick Street, near the Maine General Hospital, in which institution nearly all the teachers in the school are medical or surgical officers and the Directors of which are in full sympathy with the purposes of the Faculty.\*

While the Maine General Hospital (a view of which is given on the last page of the book) is the chief source of supply of clinical material for the school, Portland has a number of institutions, such as the Maine Eye and Ear Infirmary, the Children's Hospital, the Portland Charitable Dispensary, Portland Tuberculosis Class, Female Orphan Asylum, St. Elizabeth's Orphan Asylum, the Holy Innocents Home, the Maine School for the Deaf, which will contribute to the bedside instruction of the students; and the various teachers, as opportunity permits, will show individual pupils interesting cases in their private practice.

The ninety-first annual course will begin on Thursday, the 13th of October, 1910, and will continue thirty-six weeks.

Examinations for admission to the school will be held at nine o'clock on the morning of the first day, Thursday the 13th of October, in Brunswick.

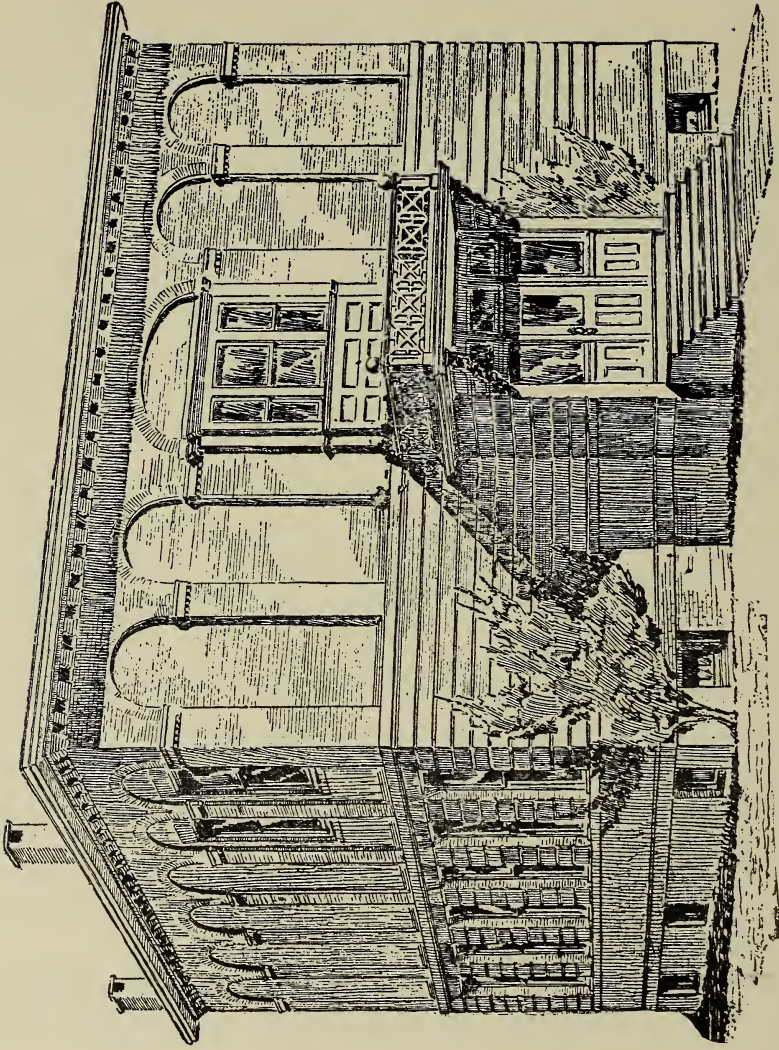
Final examinations for each class will be held in the period from the 7th to the 21st of June, 1911, inclusive

Re-examinations, deferred examinations and examinations for advanced standing for those who desire to enter the second year will be held in Brunswick on Friday, the 14th of October. Examinations in anatomy at nine o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for advanced standing for those wishing to enter the third year

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\*The electric cars (Spring Street line—blue) run on Vaughan Street, which is but one block from the School; and free transfers may be had from the Congress Street line (green) and the Middle Street line (red), so that one can easily reach the School from either end of the city, and from the Union, Grand Trunk and Rochester railway stations.



SCHOOL BUILDING, PORTLAND

will be held in Portland on Saturday, October 15th. Examinations in anatomy at nine o'clock A. M., in physiology at two o'clock P. M.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 14th and 15th, at hours to be hereafter appointed.

At the end of the first, second and third years, students who have passed successful examinations will receive certificates from the Dean.

A student who fails to pass any branch at the required examination in June, may present himself for re-examination at the beginning of the next course. If he fails at this examination he shall not again be examined in that branch until the expiration of the year, unless admitted to conditions by vote of the faculty on recommendation of the head of the department in which he has failed.

On recommendation of the head of a department, any student who has failed on examinations as above provided in the study of that department, may by vote of the faculty be allowed to enter upon the work of the next year, but he shall not be admitted to any examination of that year until he shall have passed a satisfactory examination in the study or studies which he had previously failed to pass.

No student will be admitted to the privilege of conditions if he has failed in more than two departments.

Every student who fails to maintain a satisfactory standard of work, will be warned of his deficiency from time to time, before the end of the term.

An examination which is not complete receives no consideration.

The systematic courses of instruction will begin on Monday morning, the 17th of October.

On arriving in Brunswick students should apply at the office



of the Dean in the medical building, enter their names, receive directions concerning their examinations, if any are needed, pay their fees, and be advised as to boarding places.

In Portland they should apply at the office of the medical building for the same purposes. Dr. Charles D. Smith will act as deputy dean.

### EXPENSES.

**FOR INSTRUCTIONS:** In each of the required four years \$100. This shall be paid promptly one-half at the opening of the course and the balance at the beginning of the second half of the course.

**FOR EXAMINATIONS:** Payable at the close of the term of instruction,

In Anatomy.....	\$5.00
In Physiology.....	5.00
In Chemistry .....	5.00
In Bacteriology and Pathology .....	5.00
In Obstetrics.....	5.00

These five fees are credited on the diploma or graduation fee.

For every re-examination in any of the departments in any year, \$3.00. This fee is not credited on the diploma fee.

For examination or re-examination in any branch, at a time not regularly appointed, a fee of \$5.00 must be paid in addition to the prescribed fee for that examination.

**MISCELLANEOUS:** The Matriculation fee of \$5.00 is required of every student each year.

For materials used in the chemical laboratory courses, \$3.00 for first course, \$2.00 for second course, payable in advance at the Dean's office.

For materials used in the physiological laboratory, \$2.00 for first course, \$1.00 for second course, payable in advance at the Dean's office.

For anatomical material, its cost, payable in advance.

For graduation fee (not returnable), including the parchment diploma, \$25. This will have been paid in the examination fees of the previous years.

Furnished rooms can be obtained at a rental of from \$1.50 to \$2.50 per week according to the conveniences. A sharing of the above expenses by two students evidently brings the cost within reasonable limits.

The price of board is from \$3.00 to \$4.00 a week.

The cost of living in Portland has been found to be not in excess of that at Brunswick.

\$15 to \$25 a year covers the cost of books.

Graduates of other schools, who have been engaged three years in the regular practice of medicine, may receive a general ticket upon presentation of their diplomas and payment of the matriculation fee. Graduates of other schools are not eligible for a degree from this school without attendance upon a full course of instruction immediately preceding the examination for such a degree.

### REQUIREMENTS FOR ADMISSION.

Requirements for admission to the first year are those of the Association of American Medical Colleges, with the exception that one year of Chemistry is specifically required.

Section 1. (a) A bachelor's degree from an approved college or university, or (b) or (c).

(b) A diploma from an accredited high school, normal school, or academy requiring for admission evidence of the completion of an eight-year course in primary, and intermediate grades, and for graduation not less than four years of study embracing not less than two years (4 points) of foreign languages, of which one must be Latin, two years (4 points) of mathematics, two years (4 points) of English, one year (2 points) of history, two years (4 points) of laboratory science, and six

years (12 points) of further credit in language, literature, history or science.

(c) An examination in the following branches: A. Required (18 points); Mathematics (4 points); English (4 points); history (2 points); language (4 points—2 must be Latin); science (taken from physics, chemistry botany, zoölogy, 4 points). B. Optional (to 12 points); English (2 points); history (6 points); language (6 points); manual training (2 points); mechanical drawing (1 point); natural science (botany, zoölogy, 2 points); physical science (chemistry, physics, 2 points); trigonometry (1 point); astronomy (1); civics (1); geology (1); physical geography (1); physiology and hygiene (1); political economy (1)—not more than 3 points accepted.

(One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks).

(d) Certificates from reputable instructors recognized by the superintendents hereinafter to be mentioned, or by any state board of medical examiners duly authorized by law, may be accepted in lieu of any part of this examination.

Section 2. This examination will be conducted by the Superintendent of Schools of Brunswick and Topsham, John Albert Cone, A.B. It will be recognized that the appointment of the examiner is in accordance with the requirements of the Association of American Medical Colleges.

Section 3. A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

Students from other schools who apply for advanced standing must comply with the requirements for admission to the first year, must give satisfactory evidence that they have completed a course or courses of instruction, equivalent in kind and amount to that or those in this school preceding that to which



admission is sought, and must pass examinations in all of the branches previously pursued by the class which they wish to enter. Certificates of the passage of examinations in other schools are not accepted in lieu of examinations.

Students in the Senior Class of the Academic department are permitted to take the studies of the first year in the Medical department and thus are eligible for the first year final Medical examinations.

It is desired that a literal interpretation shall be placed upon the stated requirements of the candidates for matriculation, as hitherto there have been not infrequent examples of those who inquire if other conditions than those named will not serve in lieu of the examination.

The Boards of Trustees and Overseers of Bowdoin College by recommendation of the Faculty have voted that in and after 1912 one year of study in a reputable college will be required for admission to the Medical Department, in which time particular attention shall be bestowed upon physics, chemistry, biology, and either French or German. It is advised that students take two years of college work along the same lines.

### GRADUATION.

A candidate must be twenty-one years of age, and must have devoted to his professional studies four years, including a course of instruction in each of these years in some reputable, regular, incorporated medical institution, and the last course previous to examinations must have been in this school. He must present a satisfactory certificate of good moral character from a citizen of the town in which he resides. He must also pass a satisfactory examination in the required studies previously specified and present a thesis on some medical subject, a fair copy of which must be handed to the Dean at least ten days before the beginning of the final examinations.

Time spent in pharmacy, dental and veterinary institutions,

and in preparatory schools does not entitle a student to examinations for advanced standing.

### METHODS OF INSTRUCTION.

In order to afford to students who contemplate entering the school an idea of the facilities presented by this institution for acquiring a knowledge of the science and art of medicine, a brief statement is here made of the scope of the work in each department and the methods adopted for imparting instruction.

#### ANATOMY.

The course in this branch extends over two years and covers every portion of human anatomy with special reference to its application in the practice of medicine and surgery. The scope is so extensive as to require a number of instructors and a division of the work; but an attempt is made to harmonize the various divisions and enable students to spend their time to the best possible advantage. In the class room every part of human anatomy is taken up by systems as arranged in Gerrish's Text-Book. Some subjects are treated by lectures and many by demonstrations, but the greater part of the work consists of recitations and demonstration quizzes.

First year students study embryology, histology, osteology, arthrology and visceral anatomy, including the study of the cerebro-spinal axis and organs of the special senses. Second year work includes the remainder of systematic anatomy and relational anatomy. The class-room work is made valuable by the exhibition and demonstration of dissected parts, models and casts; and from time to time students are required to present drawings of different organs. Considerable attention is also paid to surface anatomy, which is studied on the living model. The total number of hours devoted to class-room work in gross anatomy in two years' time is one hundred and seventy-four, including thirty hours of osteology.

During the first half of the first year the different tissues and

organs are studied microscopically in the histological laboratory and reproduced by free hand drawing. One hundred and thirty five hours are devoted to histology, thirty being didactic in character, the remainder laboratory work. Embryology is studied during the second half of the first year. Forty-five hours are devoted to laboratory work; thirty hours to lectures, recitations and quizzes.

First year students devote one hundred and thirty-five hours to practical anatomy and dissect at least one part of the cadaver. Second year students dissect in the second half term and spend two hundred and seventy hours in the anatomical laboratory. For this purpose a period of six weeks is reserved, during which they devote their entire time to practical anatomy and are required to dissect and demonstrate at least a complete lateral half of the human body. The supply of dissecting material is adequate and the methods and facilities for preparing and preserving it are modern and of the best.

The Anatomical Museum contains a large number of dry preparations, specimens, casts and models, including Auzoux's complete model of a man, the gift of Hon. John Fremont Hill, Ex-Governor of the State of Maine and an alumnus of 1877. The museum is rich in osteological material and disarticulated skeletons are loaned to the students of the first year, remaining in their possession until the end of the term.

At the end of each year, students are required to pass a written and an oral examination. Practical examinations in the identification of gross and microscopic structures are held in the laboratories.

#### PHYSIOLOGY.

Instruction in this department is conducted with reference to the practical application of the facts of human physiology to the needs of the student, in his study of the diagnosis and treatment of disease. Class-room demonstrations and experimental



laboratory teaching are employed, so far as they can be made to serve this purpose.

The instruction will be given by practical laboratory work, text-book recitation and supplementary lectures.

The laboratory is fully equipped with the Harvard apparatus.

The work of the first year will be devoted to study by recitation, and by practical laboratory exercises, extending over half the term, of the functions of Nutrition. Special attention will be given to the physiology of nerve and muscle, of the Blood, including its microscopical study, Digestion and the phenomena and physics of the Circulation and Respiration. Students will be taught to demonstrate for themselves the essential facts connected with these functions.

Written reviews will be held from time to time besides regular quizzes upon both the didactic and laboratory work.

The work of the second year will be devoted to the study of Reproduction, the Nervous System, the Special Senses and the physiology of Voice and Speech.

The department is well equipped with charts, models and apparatus for demonstration and experimental work, admirably adapted to aid in giving students a thoroughly practical course in Physiology. There will be not less than seventy-five hours devoted to experimental and demonstration work in laboratories.

A laboratory fee of \$2.00 will be charged, to defray cost of material, which must be paid in advance at the Dean's office before beginning the laboratory course. Students will furnish at their own cost necessary instruments for nerve-muscle dissection and will be charged extra with the cost of any injury to apparatus.

#### CHEMISTRY.

The chemical courses extend over the first two years. They consist of lectures and laboratory work occupying from five to nine hours per week for each class. As a knowledge of general

inorganic chemistry is required for admission, first year men begin with the application of general chemistry to the qualitative analysis of simple substances. The work is mainly in the laboratory, the book used being Tower's "Qualitative Chemical Analysis." This is followed by the principles and practice of quantitative analysis, especially volumetric. Particular attention is paid to the preparation of solutions of definite strength and to the computation of results. The analytical courses take the first half year.

The second half year with the first year men is given to general organic chemistry. Attention is given to the important classes into which organic compounds are divided and to properties and reactions common to the whole class, rather than to specific compounds and special reactions. The compounds chosen to illustrate each class are as far as possible those of importance to the physician. The course is given mainly by lectures with some laboratory work in the preparation of certain organic compounds. The book used is Moore's "Outlines of Organic Chemistry."

The second year men begin with physiological chemistry using Hawk's "Practical Physiological Chemistry." The work is mainly in the laboratory, supplemented by assigned readings and quizzes. This is followed by urinary analysis, the analysis of foods, detection of poisons, and the analysis of drugs and medicines.

The aim is to make the chemical courses as practical as possible. To this end the student is taught how to construct apparatus and prepare reagents as well as use them. Particular attention is given also to the literature so that a man may become familiar with the standard works of reference in each department. The facilities afforded by the Searles Science Building make it possible to do this to an unusual degree.

Students who have completed in other schools courses of instruction equivalent to the above may, upon examination, be excused from any of them.

Each student is required to pay in advance at the Dean's office a laboratory fee, covering the average cost of chemicals, gas, and water. This is \$3.00 for the first year men and \$2.00 for the second. In addition each will pay for apparatus broken or not returned at the end of the term.

#### OBSTETRICS.

Instruction in this department will be given by lectures and recitations. The instructor in Obstetrics will demonstrate for the class, in sections, work on the manikin; the diagnosis of position and presentation, the mechanism of normal labor; the manoeuvres necessary in the delivery of abnormal cases, version and application of forceps. Each member of the class will have a chance to perform these various manipulations.

During the past year clinics were held at the Maine General Hospital, the Eye and Ear Infirmary and the City Hospital. Through the courtesy of the City Physician and other practitioners all the students were granted the opportunity of assisting at individual cases.

#### INTERNAL MEDICINE.

Instruction in this department continues throughout the third and fourth years. The whole of the third year is devoted mainly to the study of Diagnosis. The remaining weeks of the course include consideration of special diseases following the order usually found in standard text books. The fourth year comprehends the study of special diseases.

During both years class room instruction is given didactically and by means of regular recitations.

Clinics are held at the Maine General Hospital and at the Portland Charitable Dispensary upon Mondays, Tuesdays, Wednesdays, Thursdays and Fridays.

Care is taken to afford the students opportunities for personal examination of cases with the prominent object of having them become familiar with physical signs.



At the Maine Eye and Ear Infirmary the students of this school are offered the opportunity of attending the clinics as often and as frequently as time will allow them to do so. Cases may be seen here which pertain to internal medicine.

Excellent opportunities for physical examination of the lungs are afforded to sections of the senior class each week at the Portland Tuberculosis Class.

It is hoped that material of the City Hospital and patients out of the hospital, under the care of the City Physician, may be made available during the coming year.

#### PATHOLOGY, BACTERIOLOGY AND HYGIENE.

Instruction in this department is given during the first, second and third years by lectures, recitations, demonstrations and laboratory work. Laboratory courses of the first and second years are given in the pathological laboratory in Seth Adams Hall. The course in clinical pathology is given in the laboratory at the school building in Portland and at the laboratories of the Maine General Hospital, Maine Eye and Ear Infirmary, Children's Hospital and Portland Charitable Dispensary.

Instruction is divided into five courses.

1. Hygiene. This course is given to first year students during the last half of the year, and occupies five hours a week for nine weeks. Eighteen of the hours are didactic and twenty-seven are laboratory hours. The laboratory work includes an introduction to bacteriology, microscopic study of foods, practical disinfection, and routine examination of water and milk.

2. Bacteriology. This course is given to second year students and occupies fourteen hours a week from the beginning of the term until the Christmas recess. Students are required to prepare most of the solutions and media used in this course. Each student is required to cultivate upon media twelve varieties of pathogenic bacteria and to study their characteristics. Animal inoculations and autopsies are performed by the stu-

dents. Special attention is given to the laboratory diagnosis of tuberculosis, diphtheria and typhoid fever.

3. General Pathology, including Pathological Histology. This course is given to second year students. Instruction occupies fourteen hours each week and lasts from January 2d to the April recess. McFarland's text-book is used as a basis for this course. The text-book is supplemented by lectures on special subjects. As far as possible the consideration of a subject in the class room is followed by a study of the same subject in the laboratory. During the latter part of the course much time is given to diagnosis work upon microscopical preparations.

4. Blood Examination. This is a short course given to second year students during the last week in May and the first week in June. Students are trained in counting the red and white corpuscles, in estimating the amount of hemoglobin, in preparing and examining fresh and stained specimens.

5. Clinical Pathology. This course is given to third year students. It includes instruction given as opportunity occurs at surgical clinics and autopsies and a forty-five hour course at the school laboratory in Portland. In this course each student examines microscopically tissues and other pathological material obtained at the Maine General Hospital, Maine Eye and Ear Infirmary, Children's Hospital and Portland Charitable Dispensary. Whenever possible, students are required to obtain the material from the patients.

Arrangements have been made with Maine General Hospital, Maine Eye and Ear Infirmary, Children's Hospital and Portland Charitable Dispensary for third year students to do pathological work in these institutions. Regular assignments are made and reports of work done required. By arrangement with the physicians in charge special attention is given to the clinical side of this work.

The course in Clinical Pathology occupies at least ninety hours. Of these only forty-five are scheduled.

## SURGERY.

The instruction in surgery is given by lectures, recitations, demonstrations, clinics, diagnosis exercises on the patient, and operations on the cadaver. It extends throughout the third and fourth years of the course, and in the highest possible degree is practical in character.

In the didactic course the recitation method is employed for the most part, as being particularly helpful to the students,—necessitating careful preparation of each lesson, allowing no essential point to be slighted, and stimulating pride by the certainty of each that his work will be compared with that of his fellows. But the lecture method is used whenever it seems serviceable, as in the introduction of new topics, the presentation of the salient features of unfamiliar subjects, and the explanation or amplification of matters not adequately treated in the text-book.

The students perform a large variety of operations upon the cadaver, under the immediate direction and supervision of the teacher. The application of bandages and other dressings is taught in the most practical manner.

The principal clinical teaching is given at the Maine General Hospital by the six visiting surgeons, all of whom are professors, assistant professors, or clinical instructors in the School. Twice in each week some of these teachers hold exercises in diagnosis, in which the students are instructed in proper methods, and privileged to make personal examination of cases. Sections of the class are taken in turn through the wards, and are given opportunities for the observation of the after-treatment and progress of patients upon whom they have seen operations performed. A system of notification by telephone enables the students to obtain prompt information of accident cases, which are brought into the Hospital. The amount of clinical material at this institution far exceeds the capacity of the classes to appropriate it without neglecting other and essential studies. The



surgeons of the Portland Charitable Dispensary permit sections of the class to observe cases at their daily service—a privilege highly valued and constantly accepted, as the kind of diseases is largely different from those usually seen at the Hospital. The City Hospital also occasionally presents interesting and useful material.

#### MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS.

Instruction in this department is as follows:

In the first half of the third year, there is a recitation course in Pharmacology. This gives the student a general idea of the action of the more important drugs. During the first half of this year a laboratory course of sixty hours is given. In this, is taken up Botany, Plant Chemistry, the manufacture of pharmaceutical preparations and the study of incompatibles.

The last three-fourths of the laboratory course will be devoted to experimental pharmaco-dynamics. The students will perform experiments, either individually or in groups, upon living animals. These experiments will give the student a first-hand knowledge of the action of the important drugs.

In the second half of the third year, the more systematic study of drugs will be begun. The instruction will be by lectures and quizzes and will include a description of the doses and preparations of drugs, their action in health and disease, their incompatibilities and the uses which are made of them in the treatment of disease. Early in this course will be given instruction in Prescription Writing and there will be constant drill on this difficult subject till the end of the fourth year.

In the first half of the fourth year this course will be continued. The last half of the year will be devoted to Therapeutics or the treatment of diseases. This will be largely a text book course with occasional lectures.

The total number of hours of instruction in this department is 240.

## MEDICAL JURISPRUDENCE.

The instruction in Medical Jurisprudence in a course of 15 lectures followed by an examination will be directed mainly to an exposition of the legal duties and responsibilities of physicians and surgeons to their patients and also to their character and position as medical expert witnesses in Courts of Justice. Practical suggestions will be given for guidance in both respects.

## GYNECOLOGY.

The course in Diseases of Women will continue through the third and fourth years. By a new arrangement, third year students will have work mainly didactic in character.

Dr. Willis Bean Moulton will in the fourth year conduct a course in the Pathology of Diseases of Women.

There will be also weekly clinics for fourth year students, at which the examination of female patients will be an important feature.

## DISEASES OF CHILDREN.

Instruction will be given, as heretofore, by recitations, lectures, clinical demonstrations, and study of cases by individual students with reports and discussions by members of the class. During the past year, clinical opportunities have been furnished by the Children's Hospital, the Female Orphan Asylum, the St. Elizabeth's Orphan Asylum, the Holy Innocents' Home, the Portland Charitable Dispensary, the Maine General Hospital, the Maine Eye and Ear Infirmary, the Maine School for the Deaf, and by the City Physician of Portland and by other practitioners, from their private practice.

## OPHTHALMOLOGY AND OTOTOLOGY.

The instruction in these departments will be given by lectures and clinics. A weekly clinic will be held at the Hospital on Saturday, at 8.30 A. M. The various diseases will be described as cases illustrating them are available for demonstration; oper-

ations will be performed when required; and other treatment applied as may be necessary.

Daily clinics are also held at the Portland Charitable Dispensary and the Maine Eye and Ear Infirmary, to which the students have access.

#### PUBLIC HYGIENE.

Instruction is given by the Professor of Physiology who is a member of the State Board of Health, by lectures upon the principles of Public Sanitation, considering the source and character of public water supplies and the collection and disposal of waste, with special reference to preventable diseases.

Several hours are devoted to sanitary legislation and the relations and obligations of the practicing physician to public and health boards, in the management of infectious diseases.

#### NEUROLOGY AND MENTAL DISEASES.

Instruction in Neurology and Mental Diseases will be given to the fourth class each week throughout the course by lectures, clinics and quizzes, three hours of each week being devoted to such instruction.

#### GENITO-URINARY SURGERY.

Instruction in Genito-Urinary Surgery will be given to the fourth class each week during the course both by lectures and clinically.

#### DERMATOLOGY.

Instruction in Dermatology will be given to the third year class each week during the entire course didactically and clinically.

#### ORTHOPEDIC SURGERY.

Clinics in Orthopedic Surgery will be held at the Maine General Hospital and the Children's Hospital on each Friday throughout the fourth year.

#### DISEASES OF THE NOSE AND THROAT.

The fourth class will receive special instruction, both didactic and clinical in Diseases of the Nose and Throat, weekly throughout the course.



SCHEDULE FOR THE FIRST YEAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ANATOMY (Didactic)		*8.15—9.15 *9.30—10.30 †9.30—10.30		†8.15—9.15 †9.30—10.30	*9.30—10.30 †9.30—10.30	
CHEMISTRY	2.30—5.30		*1.30—4.30 †2.30—5.30		*1.30—4.30 †2.30—5.30	
PHYSIOLOGY			8.30—10.30			*8.30—10.30 †8.30—11.30
HISTOLOGY (Laboratory)	*8.15—10.30	*1.30—4.30		*1.30—4.30		1.30—4.30
April 4—May 17 ANATOMY (Dissecting)		8—11.30	1.30—4.30	8—11.30 1.30—4.30	8—11.30	1.30—4.30
OSTEOLOGY				*8.15—9.15 *9.30—10.30		
EMBRYOLOGY	†8.15—9.15 †9.30—10.30 Didactic	†1.30—4.30 Laboratory				
HYGIENE AND DIETETICS				†2—5	.	†2—4

\* First half year. † Second half year, excepting from April 4 to May 17. ‡ Second half year.

## SCHEDULE FOR THE SECOND YEAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ANATOMY (Didactic)		*8.15—9.15 *9.30—10.30			†8.15—9.15	
CHEMISTRY				†10—12 †2—4		
PHYSIOLOGY (Didactic)	Jan. and Feb. 8.15—9.15 9.30—10.30		†8.15—9.15 †9.30—10.30			†8.15—9.15 †9.30—10.30
PATHOLOGY AND BACTERIOLOGY	†2—5.30	†2—5.30	†2—5.30		†2—5.30	
April 4—May 17 ANATOMY (Dissecting)	8—11.30 1.30—5.30	8—11.30 1.30—5.30	8—11.30 1.30—5.30	8—11.30 1.30—5.30	8—11.30 1.30—5.30	8—11.30 1.30—5.30

\* First half year. † Except from April 4 to May 17.

# SCHEDULE FOR THE THIRD YEAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
INTERNAL MEDICINE	11-1C 3-4A*	11-12.30B	11-1C	10-11A 2-4Cw	11-1C 3-4C	11-12.30BS
SURGERY	8-9A	10-11Am 11-12.30Cw	8-9A 10-11Co	11-12Cw	8-9A	8-9A 10-11Co 11-12.30S
MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS	9-10A 4-6D			4-6D	9-10A	
GYNECOLOGY			9-10A			9-10A
CLINICAL PATHOLOGY After April 4		2-5	3-5			
OBSTETRICS	10-11A	9-10A			10-11A	
DERMATOLOGY				8-6A	5-6C*	
PUBLIC HYGIENE	3-4A					

A Exercises at Medical School Building B At Dispensary. C Clinic. Cw Ward clinic. Co Operative clinic. D Laboratory work, 1st half year. \*Every alternate week. Am Amphitheater. S Section.



## SCHEDULE FOR THE FOURTH YEAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
INTERNAL MEDICINE	11-12.30B S 2-3A 3-4*		11-12.30B S	2-4C	11-12.30B S 2-3A	
SURGERY	10-11Cw S	8-9A	10-1Co	8-9A 10-11Cw 11-12Co	11-12Cw S	10-1Co
MATERIA MEDICA PHARMACOLOGY AND THERAPEUTICS		4-6A				4-6A
MEDICAL JURISPRUDENCE	Fifteen lectures during second half year.					
GYNECOLOGY		10-12C M				
NEUROLOGY AND MENTAL DISEASES	5-6A				10-11C 5-6A	

SCHEDULE FOR THE FOURTH YEAR—Continued

OPHTHALMOLOGY AND OTOTOLOGY	8—9A				8.30—10C
PEDIATRICS	9—10A	9—10A	3—5D	3—5D S	
GENITO-URINARY DISEASES			4—5.30M		
ORTHOPEDECS				9—10M 3—5C D	
LARYNGOLOGY AND RHINOLOGY			8.30—10A C		

A Exercises at Medical School Building. B At Dispensary. C Clinic. Cw Ward clinic. Co Operative clinic. \*Every alternate week. S Section. D Children's Hospital. M Maine General Hospital.

The total number of hours in the foregoing schedule aggregates 4,291. These hours are divided among lectures, laboratory and clinical work in such a way as to conform as nearly to the recommendations of the Association of American Medical Colleges as conditions will allow.

### THE LIBRARY

The Library of the Medical School, containing over 5,000 volumes, has been combined with that of the College, which numbers over 93,000 volumes. Both collections are under the same administration and are at the service of the medical students. The more recently published medical works and current numbers of professional journals are kept in a separate place in the main reading room for their especial use. It is not the policy of the school to furnish text books through its library, or to buy largely in medical literature; yet, by means of the catalogue of the Library of the Surgeon General's Office and the system of inter-library loans, the Librarian is able to procure for use in serious investigation almost any book that may be desired.



## TEXT BOOKS.

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ANATOMY—Gerrish. For reference, Cunningham, Piersol, Quain. Applied Anatomy, Bardeleben. For use in Histological Laboratory, Piersol, Stohr (Lewis). Embryology—McMurrich, Bailey.

PHYSIOLOGY—For recitation work, Brubaker's Text Book of Physiology. For reference, Landois, Howell's American Text Book of Physiology, Ott's Text Book of Physiology. For Laboratory, Hall's Experimental Physiology. For reference, Porter's Introduction to Physiology and Sterling's Practical Physiology.

CHEMISTRY—For class use, Tower's Qualitative Chemical Analysis, Moore's Outlines of Organic Chemistry, Hawk's Practical Physiological Chemistry. For reference, Treadwell's Qualitative Analysis; Holleman's Text Book of Organic Chemistry; Richter's Organic Chemistry; Long's Text Book of Physiological Chemistry; Abderhalden's Text Book of Physiological Chemistry; Holland's Medical Chemistry and Toxicology; Tyson's Practical Examination of Urine; Ogden's Clinical Examination of the Urine; Blythe's Detection of Poisons; Peterson and Haines' Legal Medicine and Toxicology; Leach's Food Inspection and Analysis; Mason's Examination of Water; Nelson's Introduction to the Analysis of Drugs and Medicines.

PUBLIC HYGIENE—For reference, Harrington, Coplin and Bevan, Parke's Practical Hygiene, Abbott's Hygiene of the Transmissible Diseases.

MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS—In Pharmacology, Dixon's Manual of Pharmacology. For reference, Cushney, Wood, Sollmann. In Therapeutics, Hare's Practical Therapeutics. For reference, Forchheimer.

PRACTICE OF MEDICINE—Osler, Edwards, Tyson, Hare.

DIAGNOSTIC METHODS—Sahli.

PHYSICAL DIAGNOSIS—Dacosta, Cabot, Greene.

BACTERIOLOGY—For reference, Abbott, McFarland, Park, Williams.

PATHOLOGY—For recitation, McFarland. For reference, Adami, Ziegler, Delafield and Pruden, Coplin, Green.

CLINICAL PATHOLOGY—For reference, Mallory and Wright, Lenhartz-Brooks, Wood, Stett, Todd.

SURGERY—For recitation, Brewer. For reference, Park. Minor surgery, Foote. Surgical Pathology, Warren. Surgical diagnosis, Berg. Applied Surgical Anatomy, Woolsey. Operative Surgery, Binnie, Bickham.

OBSTETRICS—Williams, Webster, Edgar, Hirst, Reynolds and Newell.

DISEASES OF WOMEN—Dudley, Penrose, Reed, Kelley 2 vols.

DISEASES OF CHILDREN—Holt, Rotch, Williams.

MEDICAL JURISPRUDENCE—Taylor with Bell's Notes, Ewell.

DISEASES OF THE EYE—Nettleship, Swanzay, DeSchweinitz.

DISEASES OF THE EAR—Bacon, Field.

NEUROLOGY—Dana, Church, Peterson, Starr.

DERMATOLOGY—Van Harlingen's Diseases of the Skin, Shamberg's Diseases of the Skin.

ORTHOPEDIC SURGERY—Bradford and Lovett.

GENITO-URINARY SURGERY—Morton, Keyes, Casper.

NOSE AND THROAT—Bishop, Knight, Kyle, Ballinger. For reference, L. Brown.

DICTIONARIES—Dorland Illustrated, Gould, Dunglison.

# CALENDAR.

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1910.

- 13 October—Thursday. Entrance Examinations: for first year students, at nine o'clock, A. M., in Brunswick.
- 14 October—Friday. Re-examinations, deferred examinations and examinations for advanced standing for second year, in Brunswick, in Anatomy, at nine o'clock, A. M.; in Physiology at two o'clock, P. M.; in Chemistry as appointed by the Professor.
- 15 October—Saturday. Re-examinations, deferred examinations and examinations for advanced standing for third year, in Portland, in Anatomy at nine o'clock, A. M.; in Physiology at two o'clock, P. M.; in Chemistry as appointed by the Professor.

Re-examinations, deferred examinations and examinations for those wishing to enter the fourth year will be held in Portland on Friday and Saturday, October 14 and 15, at hours to be hereafter appointed.

Thanksgiving Recess from Wednesday, November 23, 1.30 P. M. to Monday, November 28, 8.00 A. M.

Recess from 4.30 P. M., Wednesday, December 21, to Monday, January 2, 8.00 A. M.

1911.

22 February—Tuesday, Washington's Birthday. Holiday. No exercises.

Recess from noon of Saturday, March 25, to morning of Tuesday, April 4.

30 May—Monday, Memorial Day. Holiday. No exercises.

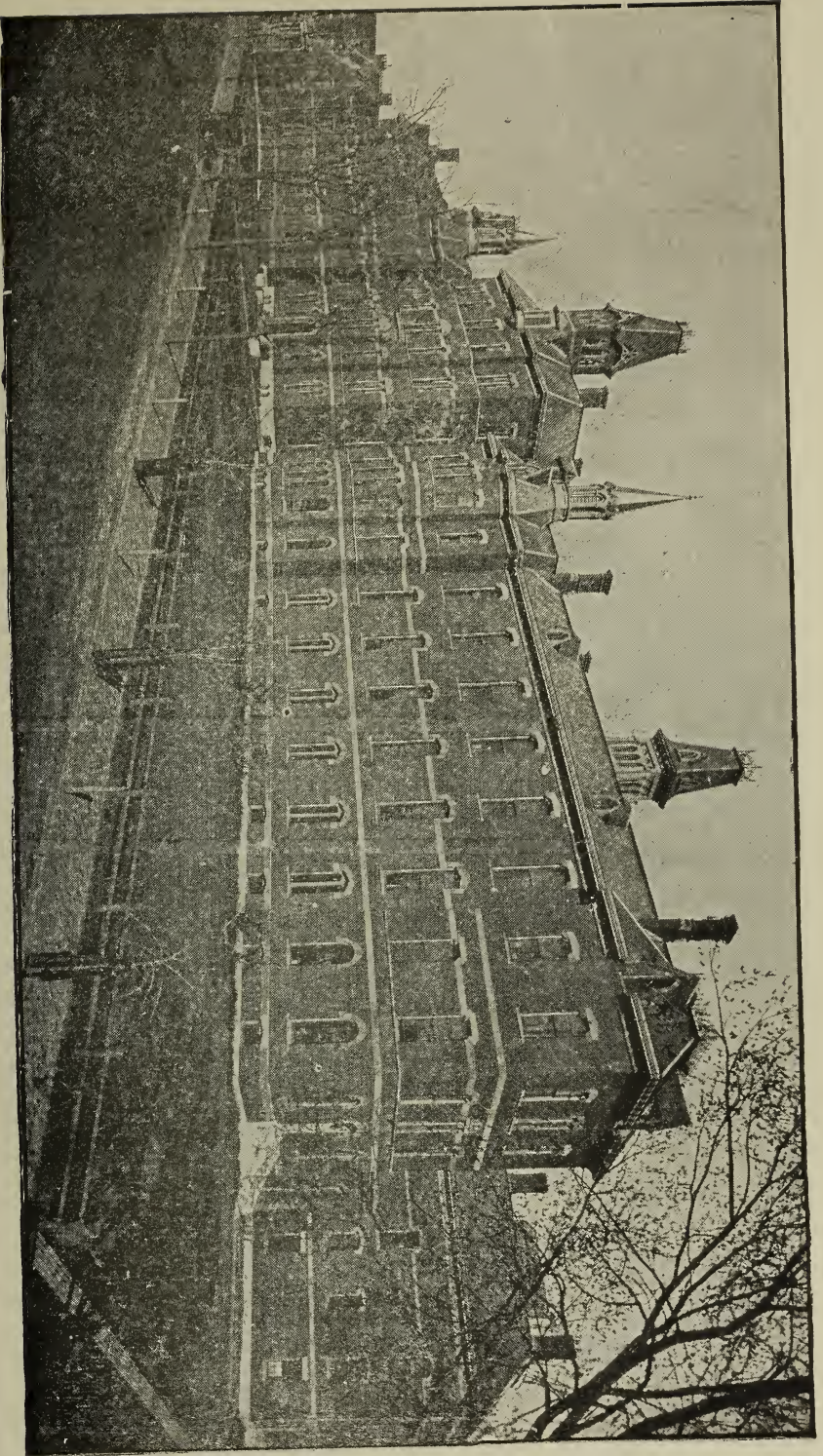
7 to 21 June—Examinations. Wednesday to Wednesday of second week.

21 June—Wednesday. Commencement.

Summer vacation of sixteen weeks.







THE MAINE GENERAL HOSPITAL, PORTLAND









